

OXYGEN CONCENTRATOR

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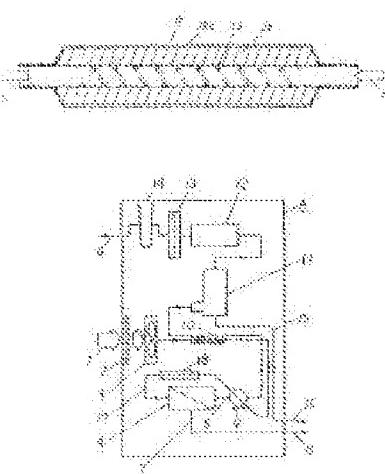
- **European:**

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Abstract of JP 60118605 (A)

PURPOSE: To increase production of oxygen concentrated air per unit area of membrane, by passing preheated atmospheric air through a selective oxygen permeability membrane, taking out oxygen concentrated air. CONSTITUTION: The atmospheric air 1 introduced from the intake filter 2 to the device A by the intake fan 3 is subjected to heat exchange with the oxygen concentrated air 5 by the heat exchanger 10, the air is passed through the vacuum pump 9, passed and heated by the heater 18 equipped with the nichrome wire 23 through the heat insulating glass wool 24 in the cylinder 18a. Then, the heated air 1 is passed through the selective oxygen permeability membrane 4 having higher permeability constant of oxygen than that of nitrogen, and temperature dependence of permeability of nitrogen and oxygen. The prepared oxygen concentrated air 5 is fed to the water separator 11, condensed water is separated and removed, sent from the active carbon filter 12 through the membrane filter 13, the flowmeter 14 and fed from the discharge opening 6 to the outside of the device.



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